

Supplemental Table 1 Test Statistics

Clone	CR Regimen	Mean Lifespan, days (SEM)	Median Lifespan (days)	Kruskal-Wallis	
				Statistic for Median	p
BmanL5	AL	10.00 (0.30)	10	5.468	0.065
	10	11.35 (0.49)	11		
	IF	10.52 (0.57)	10		
BmanMAN	AL	11.82 (0.39)	12	29.67	< 0.0001
	50	13.11 (0.53)	13		
	10	12.70 (0.44)	13		
BmanRUS	IF	9.43 (0.39)	10	195.3	< 0.0001
	AL	8.74 (0.22)	8		
	75	8.47 (0.28)	8		
	50	9.19 (0.35)	9		
	25	9.57 (0.30)	9		
	10	10.33 (0.26)	10		
MNCHU008	IF	12.33 (0.28)	12	22.47	< 0.0001
	AL	12.87 (0.43)	13		
	10	14.43 (0.64)	16		
Bp HOS	IF	16.00 (0.67)	17	7.67	0.0216
	AL	8.69 (0.46)	9		
	10	11.05 (0.59)	10		
BpL1	IF	10.06 (0.93)	11	2.045	0.563
	AL	10.05 (0.63)	10		
	50	11.58 (0.89)	12		
BpL3	10	10.35 (0.73)	11	3.469	0.1765
	IF	10.21 (0.60)	11		
	AL	8.68 (0.84)	10		
BpSAL	10	10.56 (0.81)	12	9.67	0.0079
	IF	10.95 (0.91)	13		
	AL	10.73 (0.57)	10		
CGAL6	10	11.90 (0.45)	12	134.9	< 0.0001
	IF	9.83 (0.57)	10		
	AL	11.62 (0.59)	13		
	75	10.43 (0.72)	10		
	50	11.98 (0.85)	12		
	25	13.05 (0.94)	13		
USGET006	10	10.95 (0.62)	10	3.339	0.3422
	IF	6.05 (0.33)	6		
	0	4.65 (0.09)	5		
	AL	9.60 (0.54)	10		
	50	9.65 (0.43)	10		
	10	9.18 (0.69)	10.5		
JPNAG023	IF	8.84 (0.29)	9	6.965	0.073
	AL	7.76 (0.44)	8		
	50	9.20 (0.69)	8		
AUYEN020	10	9.70 (0.84)	9	15.64	0.0013
	IF	6.17 (0.82)	7		
	AL	4.54 (0.23)	4		
	50	5.41 (0.45)	5		
	10	6.35 (0.51)	6		
	IF	7.12 (0.60)	7		

bold denotes statistically significant difference between the treatment and the AL food level ($p < 0.05$, Student's

Note: Mantel cox chi-squared and Kruskal-Wallis statistic for 100% treatment are for comparison of all curves c
degrees of freedom for kruskal-wallis and mantel-cox: number of treatments -1

Rank Difference Dunns Mult. Compar.	p	Survivorship Mantel-Cox Chi-squared	Survivorship Mantel-Cox df	Survivorship Mantel-Cox p	Maximum Lifespan, days (95th percentile)	Gompertz b (slope) (SEM)
-11.83	0.0786	6.864	2	0.0323	13	0.646 (0.413)
-0.3152	> 0.9999	9.65	1	0.0019	17	0.418 (0.078)
-12.33	0.3204	0.9353	1	0.3335	16	-0.093 (0.049)
-9.886	0.5237	42.34	3	< 0.0001	17	0.594 (0.086)
24.47	0.0031	4.024	1	0.0449	19	0.323 (0.108)
11.35	> 0.9999	1.939	1	0.1637	17	0.425 (0.110)
-14.58	> 0.9999	15.54	1	< 0.0001	13	0.503 (0.270)
-40.45	0.1971	424.5	6	< 0.0001	14	0.829 (0.141)
-77.18	0.0004	0.3208	1	0.5711	15	0.674 (0.164)
-132.8	< 0.0001	1.396	1	0.2375	17	0.495 (0.111)
117.9	< 0.0001	5.45	1	0.0196	17	0.450 (0.076)
-21.84	0.0146	20.78	1	< 0.0001	15	0.500 (0.109)
-39.32	< 0.0001	51.34	1	< 0.0001	16	0.488 (0.138)
-13.08	0.0176	103.7	1	< 0.0001	7	NA
-11.06	0.0668	36.77	2	< 0.0001	18	0.362 (0.013)
-10.85	0.5172	15.06	1	0.0001	21	0.336 (0.016)
-3.526	> 0.9999	34	1	< 0.0001	22	0.300 (0.017)
-3.596	> 0.9999	2.407	2	0.3002	12	0.405 (0.052)
-8.009	0.2949	0.7622	1	0.3826	17	0.300 (0.100)
-9.271	0.1631	2.901	1	0.0885	14	0.269 (0.144)
-9.338	0.2075	4.028	3	0.2584	18	0.275 (0.116)
6.559	0.4886	1.586	1	0.2079	21	0.172 (0.048)
25.04	> 0.9999	0.03381	1	0.8541	19	0.319 (0.088)
6.803	> 0.9999	0.00001261	1	0.9972	16	0.283 (0.117)
-6.955	> 0.9999	4.247	2	0.1196	15	0.229 (0.060)
14.42	> 0.9999	3.848	1	0.0498	16	0.118 (0.033)
108.1	< 0.0001	1.973	1	0.1601	17	0.171 (0.037)
148.8	< 0.0001	2.812	2	0.2451	15	0.198 (0.174)
3.275	> 0.9999	0.8471	1	0.3574	17	0.337 (0.291)
1.275	> 0.9999	0.9296	1	0.335	16	0.304 (0.138)
12.24	0.2951	253.9	6	< 0.0001	18	0.2631 (0.0428)
-6.645	0.8469	0.03216	1	0.8577	20	0.147 (0.0361)
-12.15	0.3302	0.04207	1	0.8375	30	0.1523 (0.033)
6.099	> 0.9999	4.858	1	0.0275	32	0.148 (0.029)
-8.441	0.7268	0.2394	1	0.6246	21	0.273 (0.051)
-19.31	0.0205	42.38	1	< 0.0001	14	0.285 (0.269)
-28.19	0.0008	72.79	1	< 0.0001	6	2.154 (3.4x10 ³⁸)
		6.481	3	0.0904	13	0.043 (0.012)
		0.00001641	1	0.9968	14	0.075 (0.028)
		0.01975	1	0.8882	14	0.047 (0.020)
		5.606	1	0.0179	10	0.047 (0.017)
		11.11	3	0.0111	11	0.399 (0.072)
		2.315	1	0.1281	17	0.221 (0.204)
		7.392	1	0.0066	14	0.513 (0.166)
		0.3385	1	0.5607	12	0.226 (0.091)
		18.46	3	0.0004	6	0.336 (0.577)
		2.848	1	0.0915	10	0.144 (0.249)
		9.795	1	0.0017	11	0.219 (0.120)
		16.34	1	< 0.0001	11	0.267 (0.119)

t test)

or medians at same time

Gompertz b F-test Statistic	Gompertz b Dfd	Gompertz b p	Gompertz a (intercept) (SEM)	Gompertz a F-test Statistic	Gompertz a Dfd	Gompertz a p
			-8.048 (3.864)			
0.574	6	0.478	-6.301 (0.909)	0.745	7	0.417
7.686	7	0.028	-0.284 (0.598)	NA	NA	NA
			-8.352 (1.031)			
3.861	6	0.097	-5.676 (1.416)	7.082	7	0.032
1.114	7	0.326	-6.886 (1.400)	3.326	8	0.106
0.118	6	0.743	-6.386 (2.457)	4.159	7	0.08
			-8.687 (1.262)			
0.397	8	0.546	-7.435 (1.355)	0.022	9	0.885
3.257	7	0.114	-5.978 (1.045)	0.435	8	0.528
5.033	8	0.055	-5.837 (0.7457)	1.548	9	0.245
2.936	7	0.13	-6.634 (1.124)	4.584	8	0.0698
2.05	8	0.019	-7.810 (1.650)	16.524	9	0.0028
NA	NA	NA	NA	NA	NA	NA
			-4.943 (0.121)			
1.216	28	0.280	-5.313 (0.192)	31.085	29	<0.001
5.923	29	0.021	-5.300 (0.218)	NA	NA	NA
			-4.976 (0.459)			
0.941	6	0.37	-4.564 (1.113)	9.432	7	0.018
0.758	6	0.418	-4.621 (1.525)	6.987	7	0.033
			-4.561 (1.179)			
0.784	12	0.393	-3.672 (0.573)	0.369	13	0.54
0.089	11	0.772	-4.903 (0.851)	0.067	12	0.800
0.002	10	0.964	-4.469 (1.172)	0.227	11	0.643
			-3.951 (0.488)			
2.949	15	0.107	-3.424 (0.405)	2.729	16	0.118
0.73	16	0.406	-4.006 (0.421)	4.319	17	0.053
0.248	6	0.634	-3.608 (1.930)	0.661	7	0.443
0.186	8	0.678	-4.702 (1.404)	0.013	9	0.912
			-5.093 (0.4660)			
4.304	21	0.051	-3.660 (0.4271)	0.762	22	0.392
4.162	23	0.053	-3.963 (0.4163)	0.064	24	0.803
4.894	25	0.036	-4.274 (0.4034)	NA	NA	NA
0.023	19	0.882	-4.951 (0.551)	1.077	20	0.312
0.011	12	0.918	-2.700 (1.857)	47.01	13	<0.0001
NA	NA	NA	-11.73 (3.4x10 ³⁸)	NA	NA	NA
			-4.634 (0.587)			
3.539	6	0.109	-7.173 (1.694)	0.265	7	0.623
0.418	10	0.532	-4.099 (0.637)	0.025	11	0.877
1.328	5	0.301	-6.126 (0.858)	2.667	6	0.154
			-4.315 (0.559)			
0.717	7	0.425	-3.481 (1.964)	2.359	8	0.163
0.193	4	0.683	-5.804 (1.501)	3.409	5	0.124
1.602	9	0.238	-3.085 (0.576)	0.018	10	0.896
			-2.711 (2.925)			
0.097	4	0.771	-2.132 (1.535)	0.528	5	0.500
0.044	6	0.84	-3.067 (0.919)	2.985	7	0.128
0.029	4	0.874	-3.227 (0.849)	4.075	5	0.099

Mean Fecundity (n offspring ind ⁻¹) (SEM)	Median Fecundity (n offspring ind ⁻¹)	Fecundity Kruskal-Wallis Statistic	Fecundity Kruskal-Wallis p	Fecundity Mean Rank Diff Dunns Mult. Comp.	Dunn's Mult. Comp. p
26.68 (0.54)	27	20.19	< 0.0001		
25.64 (1.3)	27			2.068	> 0.9999
22.08 (0.76)	21.5			23.28	0.0001
30.14 (0.37)	30	48.34	< 0.0001		
31.32 (0.84)	31			-6.407	> 0.9999
29.83 (0.46)	30			0.9091	> 0.9999
17.90 (0.77)	17			40.86	< 0.0001
32.24 (0.35)	32	193	< 0.0001		
30.91 (0.55)	32			-3.965	> 0.9999
31.07 (0.56)	32			0.172	> 0.9999
30.35 (0.99)	32			-10.67	> 0.9999
31.12 (0.63)	32			-20.88	> 0.9999
22.18 (0.56)	23			117.8	< 0.0001
3.85 (0.12)	4			174.2	< 0.0001
21.89 (0.81)	23	22.21	< 0.0001		
20.52 (1.7)	24			-0.913	> 0.9999
19.09 (0.91)	21			32.91	0.0001
22.22 (0.91)	23	6.193	0.0452		
23.58 (0.57)	25			-5.221	0.581
19.20 (1.7)	21			7.672	0.2878
24.90 (0.56)	25	8.634	0.0346		
22.75 (1.1)	23.5			9.879	0.6444
23.91 (1.1)	26			-0.1978	> 0.9999
20.75 (1.2)	21			19.32	0.0459
16.21 (2.3)	21	4.036	0.1329		
19.45 (1.6)	21			-4.694	0.8255
15.59 (1.4)	16			6.352	0.5354
25.13 (4.6)	25.5	17.5	0.0002		
25.45 (0.38)	25.5			-1.548	> 0.9999
22.04 (0.84)	21			18.61	0.0026
16.30 (0.96)	18.5	152.4	< 0.0001		
15.25 (1.0)	16			13.29	> 0.9999
16.45 (0.86)	18			-0.5011	> 0.9999
17.73 (0.98)	19			-17.94	> 0.9999
16.38 (0.93)	16			0.4161	> 0.9999
6.55 (0.36)	6			100.8	< 0.0001
2.96 (0.13)	3			153.3	< 0.0001
26.30 (1.4)	27	24.91	< 0.0001		
26.15 (1.1)	28			-2.85	> 0.9999
21.77 (2.0)	26.5			6.577	> 0.9999
14.74 (1.1)	16			30.98	0.0001
16.83 (1.3)	18.5	27.3	< 0.0001		
16.60 (0.80)	16.5			6.003	> 0.9999
16.60 (1.4)	17.5			4.178	> 0.9999
6.56 (1.3)	6.5			30.53	< 0.0001
7.54 (0.69)	6	10.13	0.0175		
8.96 (1.1)	7			-3.814	> 0.9999
10.74 (1.3)	9			-11.88	0.3063
14.71 (1.9)	14			-23.47	0.0089

Max Fecundity 95th Percentile	Lifespan Reproduction (SEM)	n
30.85	61.66 (1.9)	22
29.85	63.70 (4.4)	20
28	78.90 (4.4)	23
33	72.98 (3.0)	22
45	72.93 (3.1)	19
33	70.51 (2.7)	23
24	87.02 (1.9)	21
34	62.37 (1.5)	49
34	65.56 (1.6)	47
34	60.90 (1.9)	43
34	59.98 (2.2)	49
34	65.49 (1.5)	51
27	84.31 (1.6)	40
6	50.78 (3.1)	53
25	62.04 (2.7)	51
25.65	58.85 (3.5)	48
24	79.69 (2.9)	46
28	65.59 (3.8)	16
27	59.33 (2.4)	19
27	74.94 (4.9)	16
28.95	71.30 (3.1)	20
28	57.12 (4.3)	24
28.8	69.39 (3.9)	23
28.75	80.98 (2.7)	24
27	58.95 (7.7)	20
30.7	69.29 (5.1)	18
27.4	78.5 (4.6)	21
28	57.25 (3.2)	16
28	56.99 (2.9)	22
32.75	85.20 (2.6)	24
22	63.62 (3.0)	39
24.95	67.79 (3.2)	40
22.75	63.35 (3.1)	44
25	62.29 (2.9)	41
25.85	65.36 (2.2)	42
12.25	63.19 (2.5)	44
4.65	56.99 (3.2)	46
39.6	79.59 (2.5)	20
31.95	80.22 (2.7)	20
31.7	75.71 (4.3)	22
22	87.55 (2.3)	19
22	81.60 (3.0)	21
24.85	83.11 (2.0)	20
22	74.24 (4.4)	10
18	75.26 (4.4)	18
13.5	70.15 (2.1)	24
20	73.43 (2.6)	22
24.8	74.77 (2.1)	23
25	76.84 (3.1)	17